

### AMENDMENTS TO THE SPECIFICATION

Please amend the specification to include the "Sequence Listing" as provided in 37 C.F.R. 1.821(c) filed herewith. A floppy disk containing the Sequence Listing in computer-readable form as provided in 37 C.F.R. 1.821(e) is also filed herewith. The sequence listing information recorded in computer-readable form is identical to the written sequence listing.

Please amend ¶ [0066] as follows:

[0066] The gold working electrode was cleaned with a 70/30-v/v solution of concentrated sulfuric acid and 30% hydrogen peroxide, then thoroughly rinsed with deionized water. The thiolated probe oligonucleotide X20 (thiol-AACCAGGATTATCCGCTCAC) (SEQ ID NO: 1) was deposited on the surface of the electrode, and the electrode thoroughly rinsed with deionized water. This probe self-assembles into a monolayer on gold surfaces. A solution of the target oligonucleotide T20 (GTGAGCGGATAATCCTGGTT) (SEQ ID NO: 2) in 1x SSC buffer was added to the electrode and allowed to hybridize at 38 °C. The electrode was rinsed with 1X SSC buffer to remove any excess target. A 1-mM solution of [Ru(bipy)<sub>3</sub>]Cl<sub>2</sub> in 1X SSC buffer was added to the electrode and the electrode rinsed with 1X SSC buffer. Photoelectrochemical detection was performed in 50 mM EDTA and 0.1 mM NaCl. The electrode potential was 0–0.7 V vs. the Ag/AgCl reference electrode.

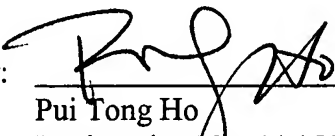
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Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 14, 2004

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